

**Maharashtra University of Health Sciences,  
Nashik**

# **SYLLABUS**

**“Certificate Course in Basic  
Infertility Management, including  
Endoscopy”**

<b>1 Name</b>	:	<b>“Certificate Course in Basic Infertility Management Including Endoscopy”</b>
<b>2 Duration</b>	:	6 Months
<b>3 Eligibility</b>	:	MS/DNB (obst & Gyn.) or DGO
	:	<p><b>Selection Criteria for candidates:</b></p> <p>Fellows should be selected in a fair and non-discriminatory manner in accordance with the Equal Opportunities. The selection process will be according to MUHS guidelines.</p> <p>The candidate is expected to appear for the multi choice(MCQ)written examination of 100 marks. Selected candidates will be called for the interview. Ultimately, selection of a candidate for a fellowship will be done by an interview with panel of faculties constituted by the MUHS.</p> <p><b>Examination paper for selection of candidates for Fellowship:</b></p> <p>Three sets of MCQ paper will be set by the committee ofthe faculties approved by MUHS &amp; only one paper will be selected by random process on the day of examination.</p> <p>Evaluation of the examination conducted will be done by a committee of faculties</p>
<b>4. Intake Capacity</b>		One Student per PG Teacher Per Unit Per year
<b>5.Teaching Scheme</b>	:	Total periods25.
	:	45min/Lecture
	:	

**Teacher student ratio :**

Teacher student ratio should be 1:1 i.e. one student per post graduate recognized teacher per unit per year.

**Text books and****6. reference books :**

Clinical gynecologic endocrinology and infertility

speroff – 6<sup>th</sup> edition

Post- graduation Obstetrics and Gynaecology Infertility and  
Clinical Endocrinology – R. Rajan

Berek and Novak's Gynaecology – 14<sup>th</sup> edition

Basic Gynaec Endoscopy – Patricia Wilson

Manual of Laparoscopic Gynaecologic surgeries- Prof. Luka  
Mencagia Endopress

## Curriculum

- Anatomy of female reproductive system
- Physiology of menstruation
- Infertility – Etiology, investigations and management
- Male factor and Female factor
- Laparoscope instruments and equipment
- Diagnostic laparoscopy with chromopertubation
- PCOD Drilling, Ovarian cystectomy, Adhesiolysis, Fulguration of endometrial implants
- Hysteroscope instruments and equipments
- Hysteroscopic diagnostic procedures
- Complications of endoscopy
- ART, IUI-basic principles
- Ethical and legal issues

## **SCHEME OF EVALUATION**

**By Credit Based System**

**Allotment of Credits**

**Total Credits: 200**

**Minimum Number of Credits for successful completion of programme:-160 credits (80%)**

**Transfer of Credit to and from other Universities: Not at present but will be informed once broad consensus among other universities is established.**

**Breakup of credits**

**It should be based on following Modules**

**A) SOFT SKILL DEVELOPMENT MODULE:(15 credits points) (May not be required in all Modules/Courses)**

These include Working at MUHS recognised Basic Skill Institutes, Virtual Reality Stations, Cadaveric Surgeries, Knotting and suturing Techniques, Basic knowledge of instrumentation and Energy Sources. A candidate may have to take additional Basic course pertaining to any special operative techniques

**B) Didactic Credits :( 20 credit points)**

Didactic on various topics as per syllabus spread over One Hour lecture. Total 10-20 Lectures depending upon specified course material and depth of theory.

Topics of Didactic lectures will depend upon the particular course/Module offered.

**C) Video Learning, Grand Rounds, Faculty Discussions ( 15 credit Points)**

Review of Recorded Surgical Procedures with Faculty Input. Specific/specialized Surgery Grand Round/Clinical Case Conference. Disease/Journal Club, Round Table Discussions.

**D) Sessions in Imaging Clinics ( 10 credit points)**

Learning of Ultrasound, CT scan, MRI & Various Procedures required for the particular course/module (e.g. Doppler study etc. )

**E) OPERATIVE SESSIONS CREDITS. (TOTAL 100 )**

**Operative Credits:** A Candidate is expected to maintain certified Log book indicating number of cases assisted or individually operated under the guidance of faculty for each Module.

## **F) Fellowship Examination 40 Credit Points (Terminal Exam by MCQs)**

This examination will be conducted at the end of the course

### **Rotation:**

A Fellow during his tenure of One year will be rotated through various institutes /faculties for total exposure to various aspects and skill in Specific/specialized Surgery. Rotations to other faculties within the course are important part of the skills curriculum. Rotations are agreed upon by the faculty and optional rotations are available upon request of the fellow and approval by the faculty program director. Upcoming interesting cases by faculty should be broadcast to all fellows through the monthly didactic meetings so freely available fellows can travel to the sites to participate or see these unusual cases.

Evaluations of the fellows by the faculty and of the faculty by the fellows will be performed at all teaching sites every quarter during the year and upon the completion of each rotation.

### **This requires rotation in**

- a) **Soft Skill Development and working at skill station and Virtual reality module for**  
**proper hand to eye co-ordination ,basic skills, basic laboratory work and proper perspective**
- b) **Didactic Lectures /Grand Rounds/ Clinical meetings**
- c) **Operative sessions in various modules/subjects/expertise in particular surgical**  
**procedure in the specified/specialized course**
- d) **Other**

Operative experience will take place along with the Faculties who will be assigned by MUHS with those hospitals/ institutes who will have MOU with MUHS for training candidates.

### **Clinical Responsibilities**

The fellow will attend and work under the faculty in the recognized institutes on the assigned modules. He/ She will participate in the preoperative assessment and planning as well as the postoperative follow-up of their assigned patients under the faculty guidance.

### **Expectations include: All Students**

- Demonstrate manual dexterity appropriate for their training level.
- Critically evaluate and demonstrate knowledge of pertinent scientific information.
- Practice-based learning and improvement that involve investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, and improvements in patient care

- All students will present and review current literature at Journal Clubs.
- All students will be expected to actively participate at local , regional and National seminars and conferences.
- Maintain high standards of ethical behavior.
- Demonstrate sensitivity to age, race, gender, and culture of patients and other health care professionals
- Practice high-quality, cost-effective patient care.
- Demonstrate knowledge of risk-benefit analysis.
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These academic activities will be constantly be reviewed by a Senior Faculty .

### **Portfolio Management:**

All Fellows will maintain a Fellowship PORTFOLIO.

Two monthly review of following topics by faculty via internet /in person this will include:

- Log Book
- 
- Presentations
- 
- Number of hours spent on hands on practice
- Summaries of case discussions and presentations.

Maintaining accurate case logs is critical to each fellow. These numbers are vital for hospital privileging. It is mandatory that case logs are entered by each fellow into the Specified Surgery/Course Fellowship Case Log. Case logs need to be printed and brought to the monthly didactic meetings for review. Failure to do so results in the curtailing of operative privileges. Log book , presentation & Dissertation will be signed & evaluated on a time to time basis by respective faculties.

Course Director/Programme Director is required to fill up the requirements according to guidelines presented below and submit it to University

### **A) SOFT SKILL DEVELOPMENT MODULE/ Laboratory Module (25 Credits)**

**(Please specify the subjects in chronological order required for the course and breakup of the credits allotted according to importance of the subject)**

1. \_
2. \_
3. \_
4. \_
5. \_

**B) Didactic Credits :( 25 Credits )**

Didactic on various topics as per syllabus spread over one Hour lecture. Total 10 - 20 Lectures

**(Please specify the subjects in chronological order required for the course and breakup of the credits allotted according to importance of the subject)**

1. \_
2. \_
3. \_
4. \_
5. \_

**C) Sessions in Imaging Clinics ( 15 credit points)**

Learning of Ultrasound, CT scan , MRI & Various Procedures required for the particular course/module (e.g. Doppler study for diabetic foot surgery)

**(Please specify the subjects in chronological order required for the course and breakup of the credits allotted according to importance of the subject)**

1. \_
2. \_
3. \_

**D) OPERATIVE SESSIONS CREDITS. (TOTAL 150 )**

**Operative Credits:** A Candidate is expected to maintain certified Log book indicating number of cases assisted or individually operated under the guidance of faculty for each Module.

**(Please specify the subjects and surgeries/modules in importance order required for the course and breakup of the credits allotted according to importance of the subject)**

1. \_
2. \_
3. \_
4. \_
5. \_
6. \_
7. \_
8. \_
9. \_
10. \_

**E) Other**



## **Fellowship Examination**

The examination for a particular course may be conducted according to the requirement of a course.

The examination should be of MCQ type for judging overall proficiency of a Fellow.

**Credit Points System:** Most Fellows confuse credit based system with a different evaluation system in medical education. The credit based system is rather a scientifically accepted system which allows different weight age to different courses in a program based on its utility in the overall program structure. Over a period of time it has been identified that every program must have some learning objective defined to it. It is also accepted fact that only a flexible credit based structure can provide the best training and learning where the student can learn at his own pace and can learn what he perceives that would help him in his professional career.

The Advantages of credit based evaluation system are 1) Skilled fellows can always go for the maximum credits (2) Students can learn at their own pace. Practicing Surgeons busy in practice will find it to be more suitable. Students can come back and finish the operative modules any time within a stipulated time and in any order. Only the Soft skill development in skills laboratory setup has to be finished first (3) Students get the freedom to choose and identify (4) Fellows can translate their innate capabilities to credits and get the know-how of more than one discipline increasing their horizons

Since the entire course is Credit System based, for each Module, the candidates will be assigned credits for their work by respective Faculty/Institute. The candidates may finish their modules and earn credits in Operative sessions within a certain stipulated time (maximum 3 years and minimum 1 year) in any order depending upon their availability of time and convenience. The basic credits for any system as stipulated by faculty of a particular course, however, will have to be finished first. The fellows may be rotated with different expert faculties / Institutes of a specific module so as to learn maximum from the respective experts in their actual operative module.

**On successful completion of all modules of the Programme the student will be awarded a Certificate of the “Certificate Course in Basic Infertility Management, including Endoscopy” by the MUHS.**